WHAT IS CLAIMED IS:

1. A method comprising:

attempting in a first attempt to acquire a first resource for a task requiring both a first resource and a second resource;

enqueuing said task on a first queue if said first attempt to acquire said first resource for said task fails;

acquiring in a second attempt said first resource for said task;

removing said task from said first queue;

attempting in a first attempt to acquire said second resource for said task;

enqueing said task on a second queue if said first attempt to acquire said second resource for said task fails; and

releasing said first resource for said task if said first attempt to acquire said second resource for said task fails.

2. The method of claim 1 wherein said first task has a first priority, and wherein said first attempt to acquire said first resource fails when a second task having said first priority in enqueued on said first queue.

3. The method of claim 2 wherein said first task has a first priority, said method further comprising:

attempting in a first attempt to acquire said first resource for a third task requiring said first resource and having a second priority higher than said first priority, and

enqueuing said third task on a third queue if said first attempt to acquire said first resource for said third task fails; and

wherein said first attempt to acquire said first resource for said first task fails when said third task having said second priority is in enqueued on said third queue.

4. The method of claim 3 wherein said first task has a first priority, and wherein said first attempt to acquire said second resource fails when a fourth task having said first priority in enqueued on said second queue.

5. The method of claim 4 wherein said first task has a first priority, said method further comprising:

attempting in a first attempt to acquire said second resource for a fifth task requiring said second resource and having a second priority higher than said first priority, and

enqueuing said fifth task on a fourth queue if said first attempt to acquire said second resource for said fifth task fails; and

wherein said first attempt to acquire said second resource for said first task fails when said fifth task having said second priority is in enqueued on said fourth queue.

6. The method of claim 5 further comprising:

acquiring in a third attempt said first resource for said first task;

attempting to acquire in a second attempt said second resource for said first task; and

releasing said first resource for said first task if said second attempt to acquire said second resource for said task fails.

7. The method of claim 5 further comprising:

acquiring in a third attempt said first resource for said first task;

acquring in a second attempt said second resource for said first task;

removing said first task from said second queue; and

dispatching said first task to be completed using said first and second resources.

8. The method of claim 7 further comprising:

finding another task enqueued on one of said second and fourth queues for said second resource;

acquiring said first resource for said other task;

attempting to acquire said second resource for said other task;

removing said other task from its queue if said attempt to acquire said second resource for said other task succeeds;

dispatching said other task to be completed using said first and second resources if said attempt to acquire said second resource for said other task succeeds; and

releasing said first resource for said other task if said attempt to acquire said second resource for said other task fails.

9. The method of claim 7 wherein said third attempt is initiated by the second resource becoming free.

10. The method of claim 7 wherein said third attempt is initiated by the first resource becoming free.

11. The method of claim 7 further comprising:

after all tasks have been removed from said second and fourth queues, finding a next task enqueued on one of said first and third queues for said first resource;

acquiring said first resource for said next task ;

attempting to acquire said second resource for said next task;

removing said next task from its queue if said attempt to acquire said second resource for said next task succeeds;

dispatching said next task to be completed using said first and second resources if said attempt to acquire said second resource for said next task succeeds; and

releasing said first resource for said next task if said attempt to acquire said second resource for said next task fails.

12. An article of manufacture wherein the article of manufacture causes operations, the operations comprising:

attempting in a first attempt to acquire a first resource for a task requiring both a first resource and a second resource;

enqueuing said task on a first queue if said first attempt to acquire said first resource for said task fails;

acquiring in a second attempt said first resource for said task;

removing said task from said first queue;

attempting in a first attempt to acquire said second resource for said task;

enqueing said task on a second queue if said first attempt to acquire said second resource for said task fails; and

releasing said first resource for said task if said first attempt to acquire said second resource for said task fails.

13. The article of claim 12 wherein said first task has a first priority, and wherein said first attempt to acquire said first resource fails when a second task having said first priority in enqueued on said first queue.

14. The article of claim 13 wherein said first task has a first priority, said operations further comprising:

attempting in a first attempt to acquire said first resource for a third task requiring said first resource and having a second priority higher than said first priority, and

enqueuing said third task on a third queue if said first attempt to acquire said first resource for said third task fails; and

wherein said first attempt to acquire said first resource for said first task fails when said third task having said second priority is in enqueued on said third queue.

15. The article of claim 14 wherein said first task has a first priority, and wherein said first attempt to acquire said second resource fails when a fourth task having said first priority in enqueued on said second queue.

16. The article of claim 15 wherein said first task has a first priority, said operations further comprising:

attempting in a first attempt to acquire said second resource for a fifth task requiring said second resource and having a second priority higher than said first priority, and

enqueuing said fifth task on a fourth queue if said first attempt to acquire said second resource for said fifth task fails; and

wherein said first attempt to acquire said second resource for said first task fails when said fifth task having said second priority is in enqueued on said fourth queue.

17. The article of claim 16, said operations further comprising:

acquiring in a third attempt said first resource for said first task;

attempting to acquire in a second attempt said second resource for said first task; and

releasing said first resource for said first task if said second attempt to acquire said second resource for said task fails.

18. The article of claim 16, said operations furthe r comprising:

acquiring in a third attempt said first resource for said first task;

acquring in a second attempt said second resource for said first task;

removing said first task from said second queue; and

dispatching said first task to be completed using said first and second resources.

19. The article of claim 18, said operations further comprising:

finding another task enqueued on one of said second and fourth queues for said second resource;

acquiring said first resource for said other task;

attempting to acquire said second resource for said other task;

removing said other task from its queue if said attempt to acquire said second resource for said other task succeeds;

dispatching said other task to be completed using said first and second resources if said attempt to acquire said second resource for said other task succeeds; and

releasing said first resource for said other task if said attempt to acquire said second resource for said other task fails.

20. The article of claim 18 wherein said third attempt is initiated by the second resource becoming free.

21. The article of claim 18 wherein said third attempt is initiated by the first resource becoming free.

22. The article of claim 18, said operations further comprising:

after all tasks have been removed from said second and fourth queues, finding a next task enqueued on one of said first and third queues for said first resource;

acquiring said first resource for said next task ;

attempting to acquire said second resource for said next task;

removing said next task from its queue if said attempt to acquire said second resource for said next task succeeds;

dispatching said next task to be completed using said first and second resources if said attempt to acquire said second resource for said next task succeeds; and

releasing said first resource for said next task if said attempt to acquire said second resource for said next task fails.

23. A system comprising:

means for attempting in a first attempt to acquire a first resource for a task requiring both a first resource and a second resource;

means for enqueuing said task on a first queue if said first attempt to acquire said first resource for said task fails;

means for acquiring in a second attempt said first resource for said task;

means for removing said task from said first queue;

means for attempting in a first attempt to acquire said second resource for said task;

means for enqueing said task on a second queue if said first attempt to acquire said second resource for said task fails; and

means for releasing said first resource for said task if said first attempt to acquire said second resource for said task fails.

24. The system of claim 23 wherein said first task has a first priority, and wherein said first attempt to acquire said first resource fails when a second task having said first priority in enqueued on said first queue.

25. The system of claim 24 wherein said first task has a first priority, said system further comprising:

means for attempting in a first attempt to acquire said first resource for a third task requiring said first resource and having a second priority higher than said first priority, and

means for enqueuing said third task on a third queue if said first attempt to acquire said first resource for said third task fails; and

wherein said first attempt to acquire said first resource for said first task fails when said third task having said second priority is in enqueued on said third queue.

26. The system of claim 25 wherein said first task has a first priority, and wherein said first attempt to acquire said second resource fails when a fourth task having said first priority in enqueued on said second queue.

27. The system of claim 26 wherein said first task has a first priority, said system further comprising:

means for attempting in a first attempt to acquire said second resource for a fifth task requiring said second resource and having a second priority higher than said first priority, and

means for enqueuing said fifth task on a fourth queue if said first attempt to acquire said second resource for said fifth task fails; and

wherein said first attempt to acquire said second resource for said first task fails when said fifth task having said second priority is in enqueued on said fourth queue.

28. The system of claim 27 further comprising:

means for acquiring in a third attempt said first resource for said first task;

means for attempting to acquire in a second attempt said second resource for said first task; and

means for releasing said first resource for said first task if said second attempt to acquire said second resource for said task fails.

29. The system of claim 27 further comprising:

means for acquiring in a third attempt said first resource for said first task;

means for acquring in a second attempt said second resource for said first task;

means for removing said first task from said second queue; and

means for dispatching said first task to be completed using said first and second resources.

30. The system of claim 29 further comprising:

means for finding another task enqueued on one of said second and fourth queues for said second resource;

means for acquiring said first resource for said other task;

means for attempting to acquire said second resource for said other task;

means for removing said other task from its queue if said attempt to acquire said second resource for said other task succeeds;

means for dispatching said other task to be completed using said first and second resources if said attempt to acquire said second resource for said other task succeeds; and

means for releasing said first resource for said other task if said attempt to acquire said second resource for said other task fails.